

CDM-8615



Owner's Manual



AUDIOVOX[®]
COMMUNICATIONS CORP.

WELCOME

Thank you for choosing the up-to-date CDM-8615, our new model, developed by top researchers to support the CDMA2000 1X system through Qualcomm-manufactured MSM6050 chips and CDMA technologies. This product allows for high speed communication services, such as web browsing, data services, and a GUI animation menu.

Among its many advanced features, the T9 input mode makes it much easier to enter letters. In addition, VR (Voice Recognition) makes it more user friendly, with proven technologies including:

- Full graphic display of 9 text input lines and 1 icon line with variable font size.
- Easy to dial through the VR feature.
- Easy to enter letters through the T9 text input mode.
- Enhanced for web browsing & data services (i.e.; wireless internet access, UP browser)
- GUI & Animation display compliant with CDMA2000 1X.
- CSTN 65K Color LCD.
- Navigation key and 21 keys aligned for more convenience.
- Sophisticated features of speaker phone, and voice recognition.
- Additional services of text messaging and Web browsing on top of authentication, call forwarding, call transfer, call waiting.

IMPORTANT INFORMATION

This CDM-8615 user guide contains very important information about how to handle and use the product. So please read this manual thoroughly, pay attention to the warranty on the back page and be alert to the exclusions and limitations of your warranty, which are related with the unauthorized use of components.

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Chapter 1

BEFORE USING YOUR PHONE

This chapter provides important information about using the CDM-8615 including:

- INSIDE THE PACKAGE
- HANDSET DESCRIPTION
- BATTERY USAGE
- BATTERY HANDLING INFORMATION

INSIDE THE PACKAGE

This package should include all items pictured below. If any are missing or different, immediately contact the retailer where you purchased the cellular telephone.



Handset



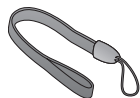
AC Charger



Standard Battery



User Manual



Handstrap



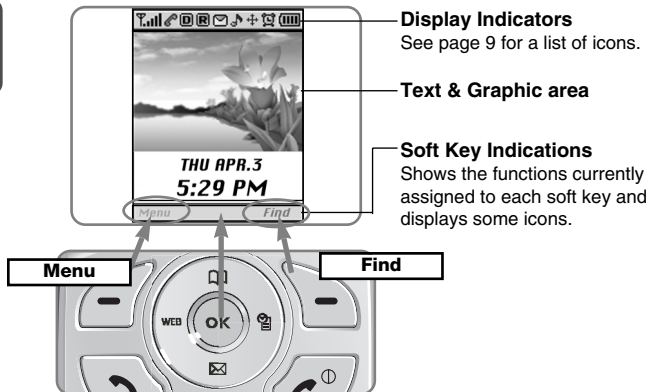
Holster

HANDSET DESCRIPTION

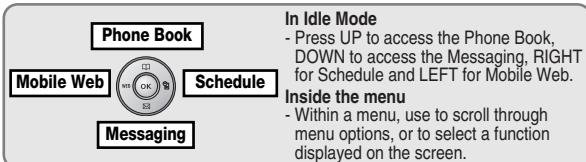
This phone is a CDMA2000 1X digital (800 MHz AMPS/CDMA, 1900 MHz PCS) phone with web browsing capabilities. The CDM-8615 weighs 3.7oz. And the dimensions are 1.83" x 4.48" x 0.97".



HANDSET DESCRIPTION



THE FUNCTION KEYS



Press to make or receive a call.
Press and hold to turn on VR mode.



Press to turn the phone on/off, to terminate a call or to return to the initial page.



(Left Soft Key) Press to access the menu or function displayed on bottom line.



(Right Soft Key) Press to access the phone book find or function displayed on bottom line.



Press to clear a digit from the display or to return to the previous page.
Press and hold to enable speaker phone mode.



Press and hold to enter etiquette mode.



Press and hold to enter lock mode.



At Flip Closed: Use Button to change Sub LCD display. **At Flip Open:** Long Press: Voice Memo

HANDSET DESCRIPTION

DISPLAY INDICATORS



Signal Strength - Current signal strength: the more lines, the stronger the signal.



Roaming
Phone is out of home area.



Service Indicator
Indicates call is in progress, indicates the phone cannot receive a signal from the system.



Message
New text or voice message.



Digital Mode
Phone is operating in digital mode.



Analog Mode
Phone is operating in analog mode.



Battery
Battery charging level – the more blocks, the stronger the charge.



Mute
Phone is mute during a call.



Silence
Appears when Silent is selected as the ring mode.



Emergency Call
Blinks when an emergency call is in progress.



Auto Answer
Phone is in answering machine mode.



Speaker phone
Phone is in speaker phone mode.



Etiquette
Phone will vibrate when call is received.



Schedule
Appears when either an event or an alarm is set.



Ring Mode
Appears when a ringer is set as a ringer mode.



Dormant
Indicates the phone is in disconnection condition while on "Server Connection".

HANDSET DESCRIPTION



Fax Only

Receives a fax call as a voice call.



Data Only

Receives an async. call as a voice call.



GPS Icon

Indicates the Location Service of your cellular telephone is disabled/enabled.



1X

Phone is in the 1x service area.



Silent

Displays when Silent is in use during a call.



Web Msg

This is Web Alert message.



Web + Text Msg

Phone has Web Alert Msg and Text Msg.



Web + Voice Msg

Phone has Web Alert Msg and Voice Msg.



Web + Text + Voice Msg - Phone has Web Alert Msg, Text Msg and Voice Msg.





Web Browser

Phone is in the progress of Browser.



TTY Mode

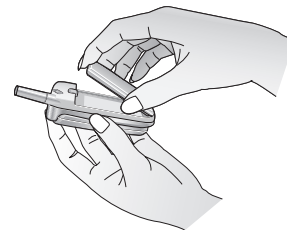
 Indicates your phone is in TTY mode is active,
 indicates your phone is in TTY mode is off.

BATTERY USAGE

BATTERY INSTALLATION



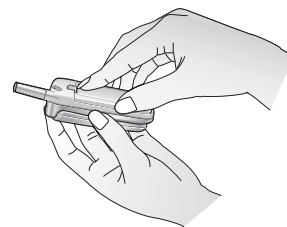
- 1 Place the battery on the back of the handset and slide into place. 2 Push the battery down until it locks into place.



BATTERY REMOVAL



- 1 Pull down the release latch, lift up the battery and 2 remove the battery from the handset.



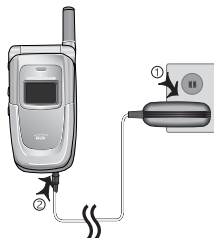
If the battery is not correctly placed in the compartment, the handset will not turn on and/or the battery may detach during use.

BATTERY USAGE

BATTERY CHARGING

POWER CONNECTION

- 1** Plug the AC charger into a standard outlet.
- 2** Plug the other end of the AC Charger into the bottom of your cellular telephone. The battery must be installed on to the cellular telephone.



- When you charge the battery with the phone power off, you will see a charging status screen. You cannot operate the phone until it is powered on.
- The battery is not charged at the time of purchase.
- Fully charge the battery before use.
- It is more efficient to charge the battery with the handset powered off.
- The battery must be connected to the phone in order to charge it.
- Battery operating time gradually decreases over time.
- If the battery fails to perform normally, you may need to replace the battery.

BATTERY USAGE

BATTERY TALK TIME

The operating time is subject to your handset usage and configuration.

Battery Capacity	DCS	PCS	AMPS
STD 1000 mAh	200 m	190 m	80 m
EXT 1700 mAh	330 m	330 m	130 m

BATTERY LIFE TIME (FOR NEW BATTERY)

The operating time is subject to your handset usage and configuration.

Battery Capacity	DCS	PCS	AMPS
STD 1000 mAh	107~190 Hours	150~250 Hours	20 Hours
EXT 1700 mAh	160~220 Hours	380~450 Hours	35 Hours



These times are for a new battery. Talking and Standby time may decrease over time.

DOs

- Only use the battery and charger approved by the manufacturer.
- Only use the battery for its original purpose.
- Try to keep batteries in a temperature between 41°F (5°C) and 95°F (35°C).
- If the battery is stored in temperatures above or below the recommended range, give it time to warm up or cool down before using.
- Completely drain the battery before recharging. It may take one to four days to completely drain.
- Store the discharged battery in a cool, dark, and dry place.
- Purchase a new battery when its operating time gradually decreases after fully charging.
- Properly dispose of the battery according to local laws.

DON'Ts

- Don't attempt to disassemble the battery – it is a sealed unit with no serviceable parts.
- Don't accidentally short circuit the battery by carrying it in your pocket or purse with other metallic objects such as coins, clips and pens. This may critically damage the battery.
- Don't leave the battery in hot or cold temps. Otherwise, it could significantly reduce the capacity and lifetime of the battery.
- Don't dispose of the battery into a fire.

Chapter 2


BASIC OPERATION

This chapter addresses and explains the basic features of your cellular telephone including.

- TURNING THE PHONE ON / OFF
- ACCESSING THE MENU
- MENU SUMMARY
- BASIC FUNCTIONS
- DURING A CALL
- MAKING AN EMERGENCY CALL

TURNING THE PHONE ON / OFF

TURNING THE PHONE ON

- 1 Press and hold , until “Bell” Logo appears and the tone sounds.

- To select a logo, refer to page 68 for more details. (Settings>Display>Graphics) for more detail.
- If your cellular telephone is locked when “Password” appears on the display, enter your 4-digit password to unlock your cellular telephone.
- The default password is the last 4 digits of your phone number.

TURNING THE PHONE OFF

- 1 Press and hold , until your “Bell” Logo appears.




NOTE

- Immediately change or recharge the battery when “Low Battery Warning Power Off” appears on the display. Memory may possibly be damaged if the phone turns off due to the battery completely draining.
- Turn the phone off before removing or replacing the battery. If the phone is on, unsaved data may be lost.

ACCESSING THE MENU

Your Cellular Telephone can be customized via the menu. Each function can be accessed by scrolling with the Navigation Key or by pressing the number that corresponds with the menu item.



- 1 To access the menu in the idle mode, press  [MENU].
- 2 Use the Navigation Key to scroll through the menu.
 - To search through the menu in numerical order, press down.
- 3 To return to the previous page, press  [CLR]. To exit the current menu and return to the idle mode, press .
- 4 Press the Navigation Key to enter a function when its main page is displayed or press its assigned number to have direct access to the function.

NOTE

Hotkey

In idle mode, move the Navigation Key as follows to access these functions:

- Upward movement : Phonebook
- Downward movement : Messaging
- Rightward movement : Schedule
- Leftward movement : Mobile Web





MENU SUMMARY

CH
2

1. Call History 	<ul style="list-style-type: none"> 1. All Calls 2. Outgoing Calls 3. Incoming Calls 4. Missed Calls 5. Erase History 	<ul style="list-style-type: none"> 1. All Calls 2. Outgoing Calls 3. Incoming Calls 4. Missed Calls 1. Last Call 2. All Calls 	
2. Phonebook 	<ul style="list-style-type: none"> 1. Find 2. New Entry 3. Speed Dial#s 4. My Phone # 5. Group 		
3. Messaging 	<ul style="list-style-type: none"> 1. Send New 2. Voice Mail 3. Inbox 4. Outbox 5. Saved 6. Web Alerts 7. Quick Text 8. Erase All 	<ul style="list-style-type: none"> 1. Voice Mail 2. Inbox 3. Outbox 4. Saved 5. Web Alerts 6. Quick Text 1. Save Sent Msg 2. Default Callback 3. Reminder 4. Auto Erase 5. Entry Mode 6. Message Log 7. Retry Time 8. Edit Voice CB# 9. Push Settings 	<ul style="list-style-type: none"> 1. Read Msg 2. Entire Msg
4. Web 	<ul style="list-style-type: none"> 1. Wireless Web 		

MENU SUMMARY

CH
2

5. Downloads 	<ul style="list-style-type: none"> 1. Games 2. Ringers 3. Screen Savers 4. Applications 5. Others 		
6. Voice SVC 	<ul style="list-style-type: none"> 1. Voice Memo 2. Voice Dial 3. Train Words 	<ul style="list-style-type: none"> 1. Record 2. Play 3. Play Speaker 4. Erase All 1. Record 2. Play 3. Play Speaker 4. Erase All 1. Yes 2. No 3. Wake-Up 4. Undo Train All 	
7. Tools 	<ul style="list-style-type: none"> 1. Schedule 2. Memo Pad 3. Alarm 4. Calculator 5. Stopwatch 6. World Clock 	<ul style="list-style-type: none"> 1. Add New Plan 2. View Plan 1. Add Memo 2. View Memo 3. Settings 1. Alarm 1 2. Alarm 2 3. Alarm 3 	
8. Settings 	<ul style="list-style-type: none"> 1. Sounds 2. Display 	<ul style="list-style-type: none"> 1. Volume 2. Ringers 3. Alerts 4. Roam Ringer 5. Tone Length 1. Menu Style 2. Graphics 3. Sub LCD 	<ul style="list-style-type: none"> 1. Ringer 2. Voice Call 3. Key Beep 4. Messages 5. Speaker 6. Power On 7. Power Off 1. Voice Call 2. Messages 3. Voice Mail 1. Service 2. Minute 3. Connect 4. Fade 5. Low Signal 1. Screen Saver 2. Power On 3. Power Off 4. Incoming Call

MENU SUMMARY

CH 2	3. Roaming 4. Data SVC 5. Games/Tools	4. Greeting 5. Backlight 6. Contrast	
	6. Location 7. Security	1. Connection 1. Backlight 2. Volume 3. Msg Alert	
		1. Lock Phone 2. Change Lock 3. Special #s	1. Special #1 2. Special #2 3. Special #3
		4. Limit Use	1. Outgoing Calls 2. Call History 3. Data Calls 4. Long Distance
	8. Airplane Mode 9. Others	5. Erase PBook 6. Erase Downloads 7. Reset Phone	
		1. Call Answer 2. Active Flip 3. Auto Answer	1. Hands Free Kit 2. Headset
		4. Auto Redial 5. Language 6. TTY Mode 7. Voice Setting 8. Key Guard	
	10. Phone Info	1. Version 2. Icons	

BASIC FUNCTIONS

MAKING A CALL

1 Enter a phone number.



To modify the phone number you have entered :

- To erase one digit at a time press .
- To erase the entire number, press and hold .

2 Press .

The indicator , appears on the display.



- If "CALL FAILED" appears on the display or the line is busy, press or .
- If you activate the "AUTO REDIAL" function, the phone will automatically redial for the number of times you have selected. (Refer to page 83).
- When you place or receive a call from stored phone numbers, both the name and phone number will be displayed.
- There is another way to make a call through the VR mode, which is called "VAD (Voice Activated Dialing)". Please refer to page 90 (Voice Service) for more details.

3 To end a call, press .

BASIC FUNCTIONS

SPEAKER PHONE

The speaker phone feature lets you hear audio through the speaker and talk without holding the phone.

- 1 To activate the speaker phone in idle, answering or calling modes, press and hold .
- 2 The phone returns to normal (Speaker phone off) after ending a call or when the phone is turned off and back on.

PAUSE FEATURE

Pauses are used for automated systems (i.e., voice mail, calling cards). Insert a pause after a phone number then enter another group of numbers. The second set of numbers is dialed automatically after the pause. This feature is useful for dialing into systems that require a code.

- 1 To insert a pause, enter a phone number then press [OPTIONS]. Select either a Hard Pause ("P" appears) or a Timed Pause ("T" appears).
- 2 Press to dial or to store. Please refer to page 30 for more details about storing a phone number.

BASIC FUNCTIONS

ANSWERING A CALL

- 1 To answer a call, press any key except , , or .

By pressing [8] [9] [15], you can select either "Any Key" or "Talk Key" to answer a call. If "Talk Key" is selected, the phone can only be answered by pressing . See page 82 for more information.

- 2 To end the call, press .



In Auto Answer Mode a call is automatically answered after a preset number of ring tones. See page 83 for more details.

3 WAY CALL FUNCTION

With Three-Way Calling, you can talk to two people at the same time. When using this feature, the normal airtime rates will be applied for each of the two calls.

- 1 Enter a number you wish to call and press .
- 2 Once you have established the connection, enter the second number you wish to call and press .
- 3 When you're connected to the second party, press again to begin your three-way call.



If one of the people you called hangs up during your call, you and the remaining caller stay connected. If you initiated the call and are the first to hang up, all three callers are disconnected.

BASIC FUNCTIONS

CALLER ID FUNCTION

Identifies caller by displaying their phone number. If the caller's name and number are already stored in your phone book, they both will appear.



The caller ID is stored in the call history.

CALL WAITING FUNCTION

Notifies you of an incoming call when you are already on a call by sounding a beep tone and displaying the caller's phone number.

- 1 To answer another call while on the phone, press . This places the first call on hold. To switch back to the first caller, press again.



Call Waiting is a system dependent feature. Please contact your service provider for details.

ADJUSTING VOLUME

Adjust the volume of the ringer, key beep and speaker.

- 1 Press [MENU] then select one of the following.

- Ringer : Controls the ringer volume.
- Voice Call : Controls the earpiece volume.
- Key Beep : Controls the key pad tone.
- Messages : Controls the received messages alert volume.
- Speaker : Controls the speaker volume.
- Power On : Controls the power on volume.
- Power Off : Controls the power off volume.

- 2 Adjust volume then press to save it.



To adjust earpiece volume during a call move the Navigation Key up or down.

BASIC FUNCTIONS

ETIQUETTE

Mutes key tones and activates the vibration mode to alert you of an incoming call or message.

- 1 To turn etiquette mode on/off, press and hold . will be displayed to indicate etiquette mode is active.

KEY GUARD

The Key guard feature of your cellular telephone locks the keypad to protect against accidental key presses when the phone is turned on and no call is in progress. You can still answer or silence an incoming call.

- 1 To lock the phone, press and hold .
- 2 To unlock the phone, press any key then input the password.

- Lock feature will deactivate when the phone is powered off. Upon next power up, you will need to press to lock phone again.



Press 1, 2, 3 to unlock the key guard.

DURING A CALL

To display menu options during a call, press [MENU].

MUTE (UNMUTE)

The caller cannot hear you or any sounds from your side but you can still hear them.

1 Press [MENU] .

- To deactivate, press [MENU] .
- The phone will automatically unmute in Emergency Call or Callback mode.

SPEAKER MODE

Activates the speaker phone when you are on a call. The phone returns to normal (speaker phone off) after ending or call or when the phone is turned off and back on.

1 Press [MENU] .

SILENT (SILENT QUIT)

Prevent the other end from hearing tones if any key is pressed during a call.

1 Press [MENU] .

- Press [MENU] to deactivate it.

SEND MY PHONE

Automatically transmits your phone number to a pager during a call. (Dependent on pager service)

1 Press [MENU] .

LOCATION

Enables the network to locate your current location through Global Positioning System (GPS). (Refer to page 75 for more details.)

1 Press [MENU] .

DURING A CALL

PHONE INFO.

Notifies you of your handset information. Please see page 86 for more details.

1 Press [MENU] .

PHONEBOOK

Display the Phonebook menu.

1 Press [MENU] .

CALL HISTORY

Display the Call History menu.

1 Press [MENU] .

MESSAGING

Enables you to send a message (SMS) during a call. (Refer to page 93 for more details.)


1 Press [MENU] .

MAKING AN EMERGENCY CALL


This 911 feature puts the phone in the Emergency Call Mode when you dial the preprogrammed emergency number, 911. It also operates in the lock mode and out of the service area.

911 IN LOCK MODE

The 911 call service is available even in the lock mode.

- 1 Enter "911" then press .
- 2 The call connects.
- 3 The phone exits the Lock Mode for 5 minutes.
 - When the call ends, the phone returns to the Lock Mode.

911 USING ANY AVAILABLE SYSTEM

- 1 Enter "911" then press .
- 2 The call connects.
- 3 The phone maintains the Emergency Mode for 5 minutes.
 - The phone returns to the Lock Mode.
 - While the phone is in the emergency mode for 5 minutes, the phone can receive an incoming call from any available system. However it can't make a call.

Chapter 3






MEMORY FUNCTION





This chapter addresses memory functions including:


- STORING A PHONE NUMBER
- ENTERING LETTERS, NUMBERS & SYMBOLS
- MAKING A CALL THROUGH THE PHONE BOOK

STORING A PHONE NUMBER

The phone book stores up to 300 entries.


- 1 Enter phone number then press .
- 2 Choose “New Entry” or “Existing Entry”. Press  [OK] to select.
- 3 The Phone # will appear above a list of icons. The name of the icon is displayed below the list. Use the Navigation Key to choose the type of # you’re adding, as indicated by the icon. Press  [OK] to select.
- 4 Enter a name then press . Please refer to page 31 for more details on entering letters, numbers & symbols. To change the input mode, press  [Abc]. Press the Navigation Key down to select the group. To select other options, press the Navigation Key down.

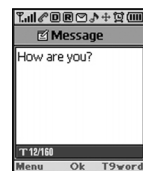
-  Group : Family, Friends, Work, Etc.
-  Ringer.
-  Graphic.
-  Set Secret : Lock, Unlock.
- The other fields are set to Numeric mode as a default.

- 5 To store the entry, press  [SAVE]. “Phone Book Entry Saved!” or “Entry edited!” will be displayed.

ENTERING LETTERS, NUMBERS & SYMBOLS







The input mode (Alpha editor) will be automatically activated when necessary to enter letters and numbers. As shown below, there are 4 available modes ; Standard input mode (Abc), T9 input mode (T9Word), Numeric mode (NUM), and Symbol mode (Symbols).

The input mode indicator appears on the upper right of the display when letters and numbers are entered. To select the desired input mode among the 4 modes below, press  [MODE], then enter letters and numbers.



Input mode indicator
T9Word : T9 mode
Abc : Abc mode
NUM : Number mode
Symbols : Symbol mode

The following illustrates the function assigned to each key in the Alpha Editor.

KEY	FUNCTION
 Mode	Press to change mode. [T9Word][Abc][NUM][Symbols]
 Next	Press to view the next matching word if the highlighted word is not the word you intended.
 Space	Press to accept a word and add a space.
 Caps Lock	Press to select a letter case of the standard text input or T9 text input mode. [Abc], [ABC], and [abc] indicate the standard text input. [T9Word], [T9WORD], and [T9word] indicate the predictive text input.
Clear 	Press to delete a character to the left of the cursor.
Save 	Store the letters and numbers you enter.

ENTERING LETTERS, NUMBERS & SYMBOLS

STANDARD INPUT MODE

Use the digit keys to enter letters, numbers and characters.

1 Enter letters using the key pad as follows:

Key Pad	1 Time	Repetitions 2 times	Repetitions 3 times	Repetitions 4 times	Repetitions 5 times
1	1	.	@	-	'
2ABC	A	B	C	2	A
3DEF	D	E	F	3	D
4GHI	G	H	I	4	G
:	:	:	:	:	:
9WXYZ	W	X	Y	Z	9

To change the input mode, press [Abc].

2 To enter a space, press . The cursor will automatically move to the next column.

3 Repeat until letters are entered.
Text Messages have a 140-character limit.

4 To delete one digit, press . To delete the entire entry, press and hold .

5 To change from lowercase to uppercase, press .



Select Abc mode, by pressing [Abc].

When you select this mode, the Abc icon appears as a visual confirmation.

- Find the key that corresponds to the letter you want to enter.
- Press it as many times as needed for the letter to appear on the screen.

- To enter the name "John":

Press J

Press o

Press h

Press n

ENTERING LETTERS, NUMBERS & SYMBOLS

T9 INPUT MODE

The T9 input mode incorporates a built-in-dictionary to determine a word based on the entered characters. A word can be entered more quickly by pressing a key once per character.

1 Select the T9Word mode by pressing [Abc].

2 Press a digit key once to enter the character you want then enter all the characters to input the word you want.

3 To view the next matching word, press .

4 To accept the matching word then enter a space, press .



To enter a compound word.

- Enter the first part of the word then press to accept it.
- Enter the last part of the word then press to enter the word.



To enter "hilltop" in the T9 input mode.

- Press [Abc] to select the T9 input mode and to choose the small letter case (T9Word).

- Press and you will see "hill" highlighted.
Press to select it.

- Press and you will see "top" highlighted.

ENTERING LETTERS, NUMBERS & SYMBOLS

NUMERIC MODE

Allows you to enter numbers.

1 Press [Abc] until the current input mode changes to the "NUM (Numeric mode)".

2 To enter a number, press a digit key.

SYMBOL MODE

Allows you to enter symbols.

1 Press [Abc] until the "Symbols (Symbol mode)" appears.

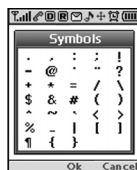
2 Select the symbol you want to enter with the Navigation Key.

- Use the Navigation Key to view a different line of symbols.

Press [],

or

Press [],



MAKING A CALL THROUGH THE PHONE BOOK

SPEED DIAL #'S

1 Press [MENU] .

2 To assign a phone number to a location, select the location then press [SET].

- If a phone number is already assigned to the location, press [ERASE] and or [YES] to delete.

3 Select the entry with the Navigation Key and press .

- If the entry is set to secret, you will be asked for your password.



- "Unassigned" appears if the location is available.
- If a phone number is set as Secret, you will have to enter the password.
- To call an assigned number, press & hold the last digit of the speed dial #.

4 "Speed dial # X edited" will be displayed.

Chapter 4

MENU FUNCTION

This chapter addresses accessing the menu and using its functions and features to customize your cellular telephone.

- CALL HISTORY
- PHONE BOOK
- DOWNLOADS
- TOOLS
- SETTINGS

CALL HISTORY

In idle mode, you can access call history by pressing [MENU] .

ALL CALLS

Displays information about the 60 most recent incoming, outgoing or missed calls.

- 1 To see a list of the 60 most recent incoming, outgoing or missed calls, press [MENU] . If the number is already stored in your phone book, only the name appears. If the number is not stored, only the phone number appears.

- 2 To view call details, press .



Call details include date, time, and phone number.

- 3 Press [OPTIONS]. Select “SAVE” to save it or press [ERASE] to delete it.

- Save: Stores the phone number in your phone book.
- Send Msg.: Sends a message to the phone number.
- Prepend: Adds numbers to the beginning of the phone number.
- Erase All: To erase all recent calls list.



After 60 incoming, outgoing or missed calls, the oldest call will automatically be erased from the history.

CALL HISTORY

OUTGOING CALLS

Displays information of the 20 most recently outgoing calls. Place a call to a received number by simply pressing .

- 1 To see a list of the 20 most recent outgoing calls, press [MENU] . If the number is already stored in your phone book, only the name appears. If the number is not stored, only the phone number appears.

- 2 To view outgoing call details, press .



Call details include date, time, and phone number.

- 3 Press [OPTIONS]. Select “SAVE” to save it or press [ERASE] to delete it.


- Save: Stores the phone number in your phone book.
- Send Msg.: Sends a message to the phone number.
- Prepend: Adds numbers to the beginning of the phone number.
- Erase All: To erase all outgoing calls list.







After the 20th outgoing call, the oldest call will automatically be erased from the history.

CALL HISTORY

INCOMING CALLS



Displays information of the 20 most recently incoming calls.
Place a call to a received number by simply pressing .

- 1 To see a list of the 20 most recent incoming calls, press  [MENU]   .
If the number is already stored in your phone book, only the name appears. If the number is not stored, only the phone number appears.

- 2 To view incoming call details, press  .

NOTE

Call details include date, time, and phone number.

- 3 Press  [OPTIONS]. Select “SAVE” to save it or press  [ERASE] to delete it.


- Save: Stores the phone number in your phone book.
- Send Msg.: Sends a message to the phone number.
- Prepend: Adds numbers to the beginning of the phone number.
- Erase All: To erase all incoming calls list.




NOTE


After the 20th incoming call, the oldest call will automatically be erased from the history.

CALL HISTORY

MISSED CALLS



Displays information of the 20 most recently missed calls.
Place a call to a received number by simply pressing .

- 1 To see a list of the 20 most recently missed calls, press  [MENU]   .
If the number is already stored in your phone book, only the name appears. If the number is not stored, only the phone number appears.

- 2 To view missed call, use the navigation keys to select then press  .

NOTE

Call details include date, time, and phone number.

- 3 Press  [OPTIONS]. Select “SAVE” to save it or press  [ERASE] to delete it.

- Save: Stores the phone number in your phone book.
- Send Msg.: Sends a message to the phone number.
- Prepend: Adds numbers to the beginning of the phone number.
- Erase All: To erase all missed calls list.

NOTE

After the 20th missed call, the oldest call will automatically be erased from the history.

CALL HISTORY

ERASE HISTORY

Erases individual Call History entries.

ALL CALLS

- 1 Press [MENU] .
- 2 You will see a message on the display (Erase All calls?).
- 3 Select [YES] or [NO]. Select “Yes” to erase all of the entries from your Call History list.

OUTGOING CALLS

- 1 Press [MENU] .
- 2 You will see a message on the display (Erase Outgoing calls?).
- 3 Select [YES] or [NO]. Select “Yes” to erase all outgoing calls from your Call History list.

INCOMING CALLS

- 1 Press [MENU] .
- 2 You will see a message on the display (Erase Incoming calls?).
- 3 Select [YES] or [NO]. Select “Yes” to erase all incoming calls from your Call History list.

CALL HISTORY

MISSED CALLS

- 1 Press [MENU] .
- 2 You will see a message on the display (Erase Missed calls?).
- 3 Select [YES] or [NO]. Select “Yes” to erase all missed calls from your Call History list.

AIR TIME

Checks the talk time and manages your calls within the limit you set, and the message “Not intended for billing purposes” appears for 5 seconds.

LAST CALL

Displays talk time of last call.

- 1 Press [MENU] .
- 2 The last call time appears on the display.
- 3 To return to the previous page, press [OK].

ALL CALLS

Displays talk time of all incoming and outgoing calls, excluding web access calls.

- 1 Press [MENU] .
- 2 View the time of the following items:
 - Voice Call: To display all the number of case calls or total call time.
 - Data/Fax Call: To display all the number of case calls or total call time.
- 3 To return to the previous page, press [OK].

PHONE BOOK

Stores up to 300 entries, each of which can be assigned to a group. Entries can be retrieved by name or group.

FIND

Retrieves an entry by name and calls by simply pressing . You can review all the entries stored in your phone book list or find an entry quickly by entering a name or its character string.

- 1 Press [MENU] .
- 2 The list of names in your phone book is displayed alphabetically. Use Navigation Key to select the name.
- 3 Enter a name or its character string or scroll through the list with the Navigation Key. Please refer to page 31 for more details on entering letters, numbers & symbols.
- 4 All matching entries will be displayed. Highlight an entry. To edit the entry, press . Press [OPTIONS] to “Send Msg.”, “Prepend”, “View” or “Erase”.

- If the entry is set to secret, you will be asked for your password. (Refer to page 76 for password information.)

Please refer to page 95 more details on “Send New”.

- 5 To call the selected number, press .

PHONE BOOK

NEW ENTRY

Adds a new entry.

- 1 To add a new entry to the phone book, press [MENU] .
- 2 To enter a name or number, use the Navigation Key to select the phone book field.

PHONE BOOK FIELDS :

Name/Mobile/Home/Office/Pager/Fax/E-Mail/Group/Ringer/Graphic/Memo/Set Secret.

Please refer to page 31 for more details on entering letters, numbers & symbols.

- 3.1 To save the entry, press [SAVE].
- 3.2 To return to the previous page, press .

PHONE BOOK

SPEED DIAL #'S

In idle mode, calls can be placed to numbers stored in speed dial by pressing & holding the location number on the key pad. For a 2-digit location number, press the first number, then press and hold the second number.

1 Press [MENU] .

2 To assign a phone number to a location, select the location then press [SET].

- If a phone number is already assigned to the location, press [ERASE] and [OK] to delete.

3 Select the entry with the Navigation Key and press .

- If the entry is set to secret, you will be asked for your password.

NOTE

- "Unassigned" appears if the location is available.
- If a phone number is set as Secret, you will have to enter the password. (Refer to page 76 for password information.)
- To call an assigned number, press & hold the last digit of the speed dial #.

4 "Speed dial # X edited" will be displayed.

MY PHONE

To display your phone number and service provider:

1 Press [MENU] .

2 To return to the previous page, press [OK].

PHONE BOOK

GROUP

Allows you to classify phone entries into groups. Existing groups include Family, Friends, Work, Etc. and All. A maximum of seven groups is allowed.

ADD NEW GROUP

1 To add a new group, press [MENU] .

A maximum of seven groups is allowed.

2 Press [OPTIONS] to select "Add Group".

3 Input a new group name.

4 To save, press .

CHANGE GROUP NAME

1 Select an existing group name with the Navigation Key.

2 Press [OPTIONS] to select "Rename".




3 Input a new group name.

4 To save, press .

NOTE

The default group names (All, Etc.) cannot be changed.

ERASE GROUP





- 1 Use the Navigation Key to select, then delete the group.
- 2 To delete it, press  [ERASE].
- 3 To erase it, press  or  [YES].







The default group names (All, Etc.) cannot be erased.



Your cellular telephone provides a unique feature -Downloads- that enables you to download games, ringers, screen savers, applications and more from your network to your cellular telephone. Please contact your service provider for the availability of these services.

START DOWNLOADS

- 1 To launch "Downloads" from the standby mode, press  [MENU] .
- 2 When five or more icons appear on the screen, select an application with Navigation Key.
- 3 To start the application, press .
- 4 To end the application, press . The phone will return to the standby mode.

DOWNLOADING APPLICATIONS

- 1 Press  [MENU]  .
- 2 Select "Get New" with Navigation Key and press .
- 3 The phone will access your service provider's server. Follow the prompt to download applications.

- When a prompt appears, press  to proceed or  to cancel.







Refer to page 109 for "Browser" as "Mobile Browser".

DOWNLOADS

GAMES

You can play a variety of entertaining and graphically-rich games on your cellular telephone. New games are easy to download and play.





- 1 Press  [MENU]  .
- 2 Select "Get New" then press  .
The Mobile Browser will launch and take you to the "Game" download menu.
- 3 Use the Navigation Key to select the game you wish to download.
- 4 From the item information page, select "Purchase".
- 5 A confirmation page will notify you that the game has been purchased and show the folder that the game stored. To download the game, select "Download".



Refer to page 109 for "Browser" as "Mobile Browser".

DOWNLOADS

RINGERS





- 1 Press  [MENU]  .
- 2 Select "Get New" then press  .
The Mobile Browser will launch and take you to the "Ringers" download menu.
- 3 Use the Navigation Key to select a ringer you wish to download.
- 4 From the item information page, select "Purchase".
- 5 A confirmation page will notify you that the ringer has been purchased and show the folder that the ringer stored. To download the ringer, select "Download".



Refer to page 109 for "Browser" as "Mobile Browser".

DOWNLOADS

SCREEN SAVERS





- 1 Press  [MENU]  .
- 2 Select “Get New” then press  .
The Mobile Browser will launch and take you to the “Screen Savers” download menu.
- 3 Use the Navigation Key to select the Screen Savers you wish to download.
- 4 From the item information page, select “Purchase”.
- 5 A confirmation page will notify you that the “Screen Savers” has been purchased and show the folder that the “Screen Savers” stored. To download the “Screen Savers”, select “Download”.

NOTE

Refer to page 109 for “Browser” as “Mobile Browser”.

DOWNLOADS

APPLICATIONS

- 1 Press  [MENU]  .
- 2 Select “Get New” then press  .
The Mobile Browser will launch and take you to the “Applications” download menu.
- 3 Use the Navigation Key to select the “Applications” you wish to download.
- 4 From the item information page, select “Purchase”.
- 5 A confirmation page will notify you that the “Applications” has been purchased and show the folder that the “Applications” stored. To download the “Applications”, select “Download”.

NOTE

Refer to page 109 for “Browser” as “Mobile Browser”.

OTHERS

SCHEDULE

Sets schedule and reminds you of that event.

ADD NEW PLAN

- 1 Press [MENU] .
- 2 Select “Get New” then press .
The Mobile Browser will launch and take you to the “Others” download menu.
- 3 Use the Navigation Key to select the item you wish to download.
- 4 From the item information page, select “Buy”.
If you have not previously purchased an item, you will be prompted to enter your account password and create your purchasing profile.
- 5 A confirmation page will notify you that the item has been purchased and is stored in the “My Downloads” folder.

- 1 Press [MENU] .
- 2 Move the Navigation Key left, right, up or down to choose a date in the calendar then press .
- 3 To select alarm options press the Navigation Key downwards.

DATE SETTING

Use the keypad to change or enter the date then press [OK].

TIME SETTING

Use the keypad to set a time and to select “AM” or “PM” then press .

PLAN SETTING

Use the keypad to input a plan message then press .

SETTING

Select an alert time interval option (On Time, 10 Min Before, 30 Min Before, 1 Hour Before, No Alarm) using the Navigation Key.

RINGER SETTING

To set a Ringer, press [OPTIONS], then select “Default” or “Change” using the Navigation Key.
To save it press .

- Default : To set default ringer type.
- Change : To set custom ringer type.

NOTE Refer to page 109 for “Browser” as “Mobile Browser”.

- 4 Press [SAVE] to save it or [CLR] to return to the calendar.
- 5 The date of the event will be marked on your calendar.

VIEW PLAN

- 1 To view the Event List, press [MENU] .
- 2 Move the Navigation Key to choose an event then press or [ERASE]. Press [OPTIONS], then select "Erase All" using the Navigation Key.

MEMO PAD

Your cellular telephone includes an internal memo pad that can be used to compose and store reminders and notes.

ADD MEMO

To compose a memo (there is an 80-letter limit):

- 1 Press [MENU] .
- 2 Input a new text memo.
(Please refer to page 31 for more details on entering letters, numbers & symbols.)
- 3 Press to save memo.

VIEW MEMO

To view a saved memo:

- 1
 - 1.1. Press [MENU] .
 - 1.2. To erase a memo, press [ERASE].
 - 1.3. To add a new memo, press [OPTIONS] "New Memo".
 - 1.4. To erase all memos, press [OPTIONS] "Erase All".
- 2 The list of all memos, in saved order, is displayed. Select a memo then press .
- 3 The selected memo will appear. To edit it, press [OPTIONS], select "Edit" and input a new text memo.
- 4 Press to save edited memo.

SETTINGS

To select memo pad background image:

- 1 Press [MENU] .
- 2 Select (Paper/Pattern/Sea/Sky/Flower) with the Navigation Key (left or right) then press .

ALARM

You can set up to 3 alarms.

- 1 To display alarm entries, press [MENU] .
- 2 Select one of the entries using the Navigation Key.
To set a new alarm, choose alarm 1, 2 or 3.
To edit an existing alarm, select that alarm.
Press .
- 3 Press the Navigation Key down to select alarm options.

SETTING

Use the Navigation Key to select a setting for the alarm (Daily/Weekly/Monthly/Off/Once).

- Once: To enter the date filed.
- Daily: Don't editing filed
- Weekly: To select "Monday", "Tuesday", "Wednesday", "Thursday", Friday, "Saturday", "Sunday".
- Monthly: To select 1~31.
- Off

DATE SETTING

Use the keypad to change or enter the date for the alarm then press [OK].

TIME SETTING

Use the keypad to set a time for the event and the to select "AM" or "PM" then press .

SNOOZE SETTING

Use the Navigation Key to select a Snooze setting (No use, 1 time after 5 min, 1 time after 10 min, 3 times by 5 min).

RINGER SETTING

To set a "Ringer" press [MENU], then select "Default" or "Change" using the Navigation Key.
To save it, press .

- Default : To set default ringer type.
- Change : To set custom ringer type.

PLAN SETTING

Using the keypad, input an alarm message then press .

- 4 To save an alarm setting press [SAVE].

CALCULATOR

To access the calculator:

- 1 Press [MENU] .
- 2 Follow the instructions below to calculate $(8*6)/4-2.5=9.5$

Input 8.
Move the Navigation Key rightward.
Input 6 then press the Navigation Key.
Move it leftward.
Input 4 then press the Navigation Key.
Move it downward.
Input 2 then press the to input (.).
Press 5.
Then press and you will see the answer.



- 3 To reset, press [RESET].

STOPWATCH

Simultaneously times up to six different events. To operate the stopwatch:

- 1 Press [MENU] .
- 2 To measure a time period.
 1. To start the stop watch, press or [START].
 2. To pause it, press or [STOP].
 3. To resume it, press or [RESET] to return to the previous page.
- 3 To time up to six events at once:
 1. To start, press or [START].
 2. To stop a time period and continue measuring another one, press [CONT].
 3. To stop the second and continue measuring a third one, press [CONT].
 4. To measure up to six time periods, repeat the above steps.
 5. To stop the stop watch, press [STOP].
 6. To review the results, press [VIEW].
 7. To return to the stop watch, press [OK].
 8. To reset it, press [RESET].

WORLD CLOCK

To display the time and date in pre-programmed cities:

- 1 Press [MENU] .
- 2 Select a city.
- 3 The world map appears with the city, its date and time.
 - Use the Navigation Key to select another city.
- 4 To return to the previous page, press [OK].



As the daylight saving time is not applied, it may be different from the actual time during DST.

SETTINGS

Customizes your cellular telephone and optimizes performance through a variety of settings.

SOUNDS

Sets Volume, Ringers, Alerts, Roam Ringer, Tone Length.

VOLUME

Controls the Ringer, Voice Call, Key Beep, Messages, Speaker, Power On, Power Off. For all volume setting outline to the user they can change using one of the following (Navigation Key, Side buttons, "Min", "Max" Selection).

RINGER

Controls the Ringer volume and alerts you to incoming calls in the following modes.

- 1 Press [MENU] .
- 2 Select one of the following options by pressing the Navigation Key to the right and press .
 - Silence All : Mute all of the sounds, press [Min].
 - Ringer Off : Mute the ringer only.
 - Vibrate On : Vibrate instead of the ringer and sms alert.
 - Ringer Mode : Up & Down (Level 1~5)
 - High & Vib : Play the sounds and vibrate as the ringer at the same time, press [Max].

VOICE CALL

To adjust earpiece volume:

- 1 Press [MENU] .
- 2 Adjust the earpiece volume with the Navigation Key and press .
 - Level1-5 (Min- , Max-)

SETTINGS

KEY BEEP

To adjust key pad tone:

- 1 Press [MENU] .
- 2 Adjust the key pad tone with the Navigation Key and press .
 - Off (Min-)
 - Level 1 - 5 (level 5, Max-)

MESSAGES

To adjust messages volume:

- 1 Press [MENU] .
- 2 Adjust the message volume using the Navigation Key and press .
 - Ringer Off (Min-)
 - Vibrate On
 - 1-Beep
 - Ringer Mode : Up & Down (Level 1~5, Max-)

SPEAKER

To adjust speaker phone volume:

- 1 Press [MENU] .
- 2 Adjusts the speaker phone volume using the Navigation Key and press .
 - Level1-5 (Min- , Max-)

SETTINGS

POWER ON

To adjust power on volume:

- 1 Press [MENU] .
- 2 Adjust the power on volume using the Navigation Key and press .

- Off (Min-)
- Level 1 - 5 (level 5, Max-)

POWER OFF

To adjust power off volume:

- 1 Press [MENU] .
- 2 Adjust the power off volume using the Navigation Key and press .

- Off (Min-)
- Level 1 - 5 (level 5, Max-)

SETTINGS

RINGERS

To select a ringer type for incoming calls:

VOICE CALL

- 1 Press [MENU] .
- 2 Select “With Caller ID” or “No Caller ID” then press [OK].
- 3 Select your desired ringer type.

- Music Bells : Radetzky March, Peer Gynt Suite No.1, Opera from La Traviata, A theme by Mozart, Behind story, Funky, My friend rudy, O Canada, Music1, Music2, Music3.
- Ring Tones : Ring Tone 1~5.
- Downloads : Downloaded ringer types and familiar music.

- 4 Select one of the available ring types.
To confirm, press .

MESSAGES

show tones after you make the menu selections, should show messages.

- 1 Press [MENU] .
- 2 Select your desired ringer type.

- Music Bells : Radetzky March, Peer Gynt Suite No.1, Opera from La Traviata, A theme by Mozart, Behind story, Funky, My friend rudy, O Canada, Music1, Music2, Music3.
- Tones : Tone 1~10.
- Downloads : Downloaded ringer types and familiar music.

- 3 Select one of the available ring types.
To confirm, press .

SETTINGS

VOICE MAIL

show tones after you make the menu selections, should show voice mail.

1 Press [MENU] .

2 Select your desired ringer type.

- Music Bells : Radetzky March, Peer Gynt Suite No.1, Opera from La Traviata, A theme by Mozart, Behind story, Funky, My friend rudy, O Canada, Music1, Music2, Music3.
- Tones : Tone 1~10.
- Downloads : Downloaded ringer types and familiar music.

3 Select one of the available ring types.
To confirm, press .

ALERTS

When set, this setting alerts you to the following handset changes:

SERVICE

Sounds an alert when leaving a service area then entering a roaming service area.

1 Press [MENU] .

2 Select “Off” or “On” with the Navigation Key then press [OK] to save it.

MINUTE

Sounds an alert every minute during a call.

1 Press [MENU] .

2 Select “Off” or “On” with the Navigation Key then press [OK] to save it.

CONNECT

Notifies you that a call has been successfully placed.

1 Press [MENU] .

2 Select “Off” or “On” with the Navigation Key then press [OK] to save it.

SETTINGS

FADE

Sounds an alert when the signal begins to fade.

1 Press [MENU] .

2 Select “Off” or “On” with the Navigation Key then press [OK] to save it.

LOW SIGNAL

Sounds an alert when you encounter low signal strength during a call.

1 Press [MENU] .

2 Select “Off” or “On” with the Navigation Key then press [OK] to save it.

ROAM RINGER

Sounds a different ringer when you are in a roaming service area.

1 Press [MENU] .

2 Select “Normal” or “Distinctive” with the Navigation Key then press [OK] to save it.

- Normal : Sounds the same ringer type as used in Home area.
- Distinctive : Sounds a different ringer type.

TONE LENGTH

To adjust tone length:

1 Press [MENU] .

2 Select “Normal” or “Long” with the Navigation Key then press [OK] to save it.

SETTINGS

DISPLAY

Allows you to customize display.

MENU STYLE

To select a display menu style:

- 1 Press [MENU] .
- 2 Select “Fold”, “Grid” or “List” with the Navigation Key then press [OK] to save it.

GRAPHICS

To select an LCD display:

SCREEN SAVER

- 1 Press [MENU] .
- 2 Select Default to choose a pre-installed display, or Downloads or Saved to Phone to choose a display you have downloaded to your phone.
- 3 To save it, press [SELECT].

POWER ON

- 1 Press [MENU] .
- 2 Select Default to choose a pre-installed display, or Downloads or Saved to Phone to choose a display you have downloaded to your phone.
- 3 To save it, press [SELECT].

SETTINGS

POWER OFF

- 1 Press [MENU] .
- 2 Select Default to choose a pre-installed display, or Downloads or Saved to Phone to choose a display you have downloaded to your phone.
- 3 To save it, press [SELECT].

INCOMING CALL

- 1 Press [MENU] .
- 2 Select Default to choose a pre-installed display, or Downloads or Saved to Phone to choose a display you have downloaded to your phone.
- 3 To save it, press [SELECT].

SUB LCD

To change the sub LCD display clock image setting only:

- 1 Press [MENU] .
- 2 Select “Digital” or “Analog” with the Navigation Key and press [OK].



When the flip is closed, press the side key to switch between the analog clock and digital clock.

SETTINGS

GREETING

To input a personal greeting:

- 1 Press [MENU] .
- 2 Select “Setting”, “Font”, “Bg” or “Entry Message” with the Navigation Key and press [SAVE].

- Setting : On/Off.
- Font : White, Blue, Dark blue, Magenta, Gray, Black.
- Bg : Transparent, White, Blue, Yellow, Gray, Black.
- Entry Message : Enter message (Default-Bell Mobility).

BACKLIGHT

Backlights the display and key pad for easy viewing in dark places.

LCD/KEY PAD

- 1 Press [MENU] .
- 2 Select “LCD” or “Key Pad” then select the duration with the Navigation Key and press [OK].

- LCD : 8 Secs/15 Secs/30 Secs/Always On.
- Key Pad : 8 Secs/15 Secs/30 Secs/Always On/Always Off.



When the Subscriber terminal is connected to external power (Hands Free Car Kit), The backlight setting change to “Always On”.

SETTINGS

CONTRAST

To adjust the display contrast:

MAIN LCD/SUB LCD

- 1 Press [MENU] .
- 2 Select “Main LCD” or “Sub LCD” then select one of the following options with the Navigation Key and press [OK].

- Main LCD : Level 1~5.
- Sub LCD : Level 1~5.

SETTINGS

ROAMING

Your Cellular Telephone allows you to control your ability to roam. By using the Roaming menu option, you can determine which signals your cellular telephone accepts.

- 1 Press [MENU] .
- 2 Select one of the following options by pressing the Navigation Key and press [OK].

- Home Only: Only within your home area or home affiliated area.
- Analog Only: Stays in the analog setting until the hand set is powered on after being powered off.
- Analog Home Only: Analog only within your home area or home affiliated area.
- Digital Only: Stays in the digital setting until the hand set is powered on after being powered off.
- Automatic: Scan the radio channels based on the Automatic setting.

SETTINGS

DATA SVC

Allows you to transfer data when your cellular telephone is connected to a PC.

CONNECTION

To select a connection mode based on the handset usage:

- 1 Press [MENU] .
- 2 Select one of the following connection modes and press [OK].

- Voice Call: To receive a voice call.
- Data Only: To receive data when connected to PC.
- Fax Only: To function as a fax when connected to PC.



This function is available only when the phone is connected to a data cable.

SETTINGS

GAMES/TOOLS

BACKLIGHT

While playing a game, select how long the display screen and keypad are backlight after any key press is made.

- 1 Press [MENU] .
- 2 Select one of the following connection modes and press [OK].

- 8 Secs / 15 Secs / 30 Secs / Always On

VOLUME

While playing a game, controls game volume.

- 1 Press [MENU] .
- 2 Select one of the following connection modes and press .

- Off (Min-)
- Level 1 - 5 (level 5, Max-)

MSG ALERT

A function that displays the received SMS/Voice mail while playing a game.

- 1 Press [MENU] .
- 2 Select "On" or "Off" by pressing the Navigation Key and press [OK].

SETTINGS

LOCATION

Your Cellular telephone is equipped with a Location feature for use in connection with location-based services that may be available in the future. The Location feature allows the network to detect your position. Turning Location off will hide your location from everyone except 911.

- 1 Press [MENU] .
- 2 Read the message then press [OK].

Turning location "on" lets the network Detect your geographic location using GPS, making some features easier to use. Turing location "off" disables GPS, but some features may still detect your whereabouts using Cell tower technology. Except for basic telephone and 911 service, your location information will only be used with your consent.

- 3 Select "On" or "Off" by pressing the Navigation Key and press [OK].

- On: Turning location "on" lets the network detect your whereabouts using GPS.
- Off: Turning location "off" disables GPS –except for 911 –but cell tower technology may still used to detect your whereabouts for some features and basic telephone service.

SETTINGS

SECURITY

Prevents unauthorized use of your cellular telephone. The following settings can be restricted:

LOCK PHONE

Prevents the phone from being used without entering the password first.

- 1 Press [MENU] then enter "Password".



The default password is the last 4 digits of your phone number.

- 2 Press then select "Lock Now", "Lock On Power Up" or "Unlock" and press [OK].

- Lock Now : Lock the phone now.
- Lock On Power Up : Do not lock the phone now, but it is automatically locked when power recycled.
- Unlock : Do not lock the phone.

CHANGE LOCK

Changes your 4-digit password.

- 1 Press [MENU] then enter "Password".

- 2 Press .

- 3 Enter a new password then press .

- 4 Enter the new password again and press .

SETTINGS

SPECIAL #'S

Stores 3 phone numbers that can be called even in the lock mode.

- 1 Press [MENU] then enter "Password".

- 2 Press then select a location with the Navigation Key.

- 3 Press [SET] and input a phone number, press again to save.

LIMIT USE

OUTGOING CALLS

Blocks all outgoing calls – except emergency calls – but allows an incoming call to be placed.

- 1 Press [MENU] then enter "Password".

- 2 Press then select "Allow" or "Restrict" with the Navigation Key and press [OK].

- Allow : Allows a dialed call.
- Restrict : Restricts a dialed call.



Refer to page 76 for password information.

SETTINGS

CALL HISTORY

Blocks access to call history.

- 1 Press [MENU] then enter "Password".
- 2 Press then select "Allow" or "Restrict" with the Navigation Key and press [OK].

- Allow: Allow access to call history.
- Restrict: Restrict access to call history.

DATA CALLS

Restrict a data call from being placed.

- 1 Press [MENU] then enter "Password".
- 2 Press then select "Allow" or "Restrict" with the Navigation Key and press [OK].

- Allow : Allows data calls.
- Restrict : Restricts data calls.

LONG DISTANCE

Restricts calling long distance numbers – the phone is limited to calling numbers within the area.

- 1 Press [MENU] then enter "Password".
- 2 Press then select "Allow" or "Restrict" with the Navigation Key and press [OK].

- Allow : Allow a long distance call.
- Restrict : Restrict a long distance call.

SETTINGS

ERASE PBOOK

To erase all the names and phone numbers in your internal Phone Book:

- 1 Press [MENU] then enter "Password".
- 2 Press .
- 3 Read the message (Erase Phone Book?) then press [YES] or [NO].

ERASE DOWNLOADS

To erase all the downloaded item:

- 1 Press [MENU] then enter "Password".
- 2 Press .
- 3 Read the message (Erase Downloads?) and press [YES] or [NO].

SETTINGS

RESET PHONE

Resetting the phone restores all the factory defaults, including the ringer types and display settings. The internal Phone Book, Call History, Scheduler, and Messaging are not affected.

- 1 Press [MENU] then enter "Password".
- 2 Press .
- 3 Read the message (It'll be erase all data on your phone. Reset Phone?) then press [YES] or [NO].



When you select "Yes" you will see "Reset Phone! Your cellular telephone will reboot now" on the display and your cellular telephone will reset all settings to the factory defaults.

SETTINGS

AIRPLANE MODE

When your cellular telephone is in Airplane Mode, it cannot send or receive any calls or access online information. In this mode you may still use the phone's other features such as Games and Voice Memos. To set your cellular telephone to Airplane Mode:

- 1 Press [MENU] .
- 2 Read the message then press [OK].
 - Turn on airplane mode will prevent any outgoing and Incoming calls as well as any online access.
 - You can make emergency calls regardless of airplane mode setting.
- 3 Select "On" or "Off" by pressing the Navigation Key.
- 4 To save your Airplane Mode setting, press [OK].



While in Airplane Mode, your phone's standby screen will display "Phone off" and the Time/Date display disappears.

CALL ANSWER

To select an answer mode:

1 Press [MENU] .

2 Select “Any Key” or “Talk Key” with the Navigation Key and press [OK].

- Any Key : Press any key to answer an incoming call except , , , and .
- Talk Key : Press only to answer a call.

ACTIVE FLIP

Selects an Active Flip Answer mode as follows.

1 Press [MENU] .

2 Select “On” or “Off” with the Navigation Key and press [OK].

- When Active Flip On is selected, an incoming phone call can be answered simply by opening the phone.
- When Active Flip Off is selected, you will need to open the phone and follow the call answer institution with Answer mode you have selected.

AUTO ANSWER

To answer calls when your cellular telephone is connected to an optional hands-free car kit or headset:

1 Press [MENU] .

2 Select “Hands Free Kit” or “Headset” with the Navigation Key.

3 Select one of the following options and press [OK].

Off / 5 Secs / 10 Secs / 18 Secs



This function will not be active when you select Vibrate, Silence All or Etiquette as a ringer mode.

AUTO REDIAL

Automatically redial a call up to 5 times after a set time interval.

1 Press [MENU] .

2 Select a redial time option (Off, 3 Secs, 5 Secs, 7 Secs, 10 Secs). The Repeat Category will appear when a time frame is chosen.

3 Under Repeat, select a time interval option (1 Time, 3 Times, 5 Times).



It disappears when Redial Time is “Off”.

4 To save, press [OK].

SETTINGS

LANGUAGE

Selects the language in which letters are displayed on screen.

- 1 Press [MENU] .
- 2 Select either “English” or “Français” with the Navigation Key and press [OK].

TTY MODE

A TTY (also known as a TDD or Text Telephone), is a telecommunications device that allows people who are deaf or hard of hearing, or who have speech or language disabilities, to communicate via a telephone.

Your cellular telephone is compatible with select TTY devices. Please check with the manufacturer of your TTY device to ensure that it supports digital wireless transmission. Your cellular telephone and TTY device will connect via a special cable that plugs into your phone's headset jack. If this cable was not provided with your TTY device, contact your TTY device manufacturer to purchase the connector cable.

- 1 Press [MENU] .
- 2 Read the message, then press .

Enabling TTY may impair headset use and non-TTY accessory performance.

- 3 Select either “Enable TTY” or “Disable TTY” with the Navigation Key and press [OK].

SETTINGS

VOICE SETTING

To answer calls when your cellular telephone is connected to an optional hands-free car kit or headset:

- 1 Press [MENU] .
- 2 Select “Set Active” or “HFK Mode” with the Navigation Key.
- 3 Select one of the following options and press [OK].

- Set Active : Talk Key / Active Flip / Off
- HFK Mode : On, Off

KEY GUARD

- 1 Press [MENU] .
- 2 Select “Off” or “On” with the Navigation Key.
- 3 To save, press [OK]. (“Key Guard Mode is now on” displays.)
- 4 Press 1,2,3 to unlock your keypad.

PHONE INFO

VERSION

Displays the (Phone Number / Software Ver / PRL / Hardware Ver / Decimal ESN / Hex ESN / MSID / Browser Ver / Browser Name / MCL Ver) version.

- 1 Press [MENU] .
- 2 You are to see the version of software, hardware and others.
- 3 To return to the previous page, press [OK].

ICONS

Displays the Indicator Icons of your cellular telephone.

- 1 Press [MENU] .
- 2 You are to see the Indicator Icons of your cellular telephone.
- 3 To return to the previous page, press [OK].

Chapter 5

VOICE SERVICE

This chapter addresses Voice Service, an advanced feature that allows you to place calls using your voice. With Voice Memo (VM) you can record voice messages and set the Answering Machine. Topics include:

- VOICE RECOGNITION MODE
- VOICE TOOLS MENU

VOICE RECOGNITION MODE

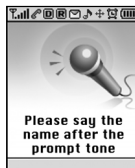
Voice Recognition (VR) enables you to place calls using your voice and to record voice memos.

- 1 Press and hold  until your cellular telephone turns to Voice Recognition mode.




If no recorded voice dial, "No entries recorded" message will be displayed. (Refer to page 90 for how to set one up.)

- 2 "Please say the name after the prompt tone" will be displayed and you will hear "Name please".




















NAME

- 1 Press and hold  until your cellular telephone turns to Voice Recognition mode.
- 2 If you say a name or tag that is already in the phone book, the number and name will be displayed and you will hear "Calling (name)."

VOICE TOOLS MENU

VOICE MEMO

Voice Memo allows you to record a reminder message that can be up to 60 seconds. To record a memo:

- 1 To start Tools menu, press  [MENU] .
- 2 To enter a voice memo, press .
- 3
 - 1.1. To record a voice memo, press . Instructions will be displayed and you will hear "Please record at the tone."
 - 1.2. To stop recording a memo, press  [STOP] or  [PAUSE/RESUME].
 - 1.3. Press  [OPTIONS] after recording a voice memo to "Re-record", "Review" or "Save."
 - 1.4. Select "Save" to input a "Voice Memo" caption, then press . If not given a name, identify the voice memo with default to untitled. (See page 31 for more information on entering letters, numbers and symbols.)
2. To play voice memo, press . Select the message you want to play. Press  [OPTIONS] for "Play" or "Edit Caption." Press  [ERASE] to erase the memo.
3. To play using the speaker mode, press . Select the message you want to play. Press  [OPTIONS] for "Play" or "Edit Caption." Press  [ERASE] to erase the memo.
4. To erase all voice memos, press . "Erase all voice memos?" will be displayed. Press  [YES] or  [NO].

VOICE TOOLS MENU

VOICE DIAL

Voice Dial allows you to call a person by simply saying their name.
To access Voice Dial:

- 1 Press [MENU] to start Voice Tools menu.
- 2 To enter a voice dial, press .
- 3 1.1. To record a voice dial, press .
The phone book list will be displayed alphabetically. Select a name then press .
Instructions will be displayed and you will hear “Name Please”.
1.2. Say the name for the voice tag and repeat the name when prompted. You will hear “Added”.
2. To play a voice dial, press .
Highlight the message you want to play then press [PLAY] or press [ERASE].
3. To play speaker mode, press .
Highlight the message you want to play then press [PLAY] or press [ERASE].
4. To erase all voice dials, press .
“Removing all voice tags Proceed?” will be displayed.
Press [YES] or [NO].

VOICE TOOLS MENU

TRAIN WORDS

Train allows you to use Control words to make a call without using the keypad.

YES

Use to train or untrain the Voice Recognition with the control word, “Yes”.

- 1 Press [MENU] .
- 2 “Please hold phone to ear and follow instructions” will be displayed and you will hear “Now training control words. Please say the word yes”.
- 3 Say “Yes”. You will hear “Again”. Say “Yes” again. You will hear “Training was Successful”.

NO

Use to train or untrain the Voice Recognition with the control word, “No”.

- 1 Press [MENU] .
- 2 “Please hold phone to ear and follow instructions” will be displayed and you will hear “Now training control words. Please say the word no”.
- 3 Say “No”. You will hear “Again”. Say “No” again. You will hear “Training was Successful”.

VOICE TOOLS MENU

WAKE-UP

Use to train or untrain the Voice Recognition with the control word, "Wake-Up".

- 1 Press [MENU] .
- 2 "Please hold phone to ear and follow instructions" will be displayed and you will hear "Now training control words. Please say the word Wake-Up".
- 3 Say "Wake-Up". You will hear "Again". Say "Wake-Up" again. You will hear "Training was Successful".

UNDO TRAIN ALL

Undo Train All erases all "trained" words.

- 1 Press [MENU] .
- 2 "Undo voice recognition for all procedures?" will be displayed. Press [YES] or [NO].

Chapter 6

VOICE MAIL AND TEXT MESSAGE

This chapter addresses Voice Mail and Text Messaging functions including:

- WHEN A NEW MESSAGE ARRIVES
- VOICE MAIL
- SEND NEW
- INBOX
- OUTBOX
- SAVED
- WEB ALERTS
- QUICK TEXT
- ERASE ALL
- SETTINGS

WHEN A NEW MESSAGE ARRIVES

- 1 The following display appears when a new message arrives.

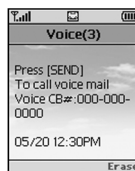


- 2 To display the message, press [READ].

VOICE MAIL

Displays the number of voice mails and accesses them by pressing .

- 1 To access your voice mail, press [MENU] or or .



SEND NEW

To send a new text message:

- 1 Press [MENU] or .
- 2 Under “Send To”, input the phone number and press .

- By pressing [OPTIONS], the user can choose from the following:
Find : Allows the user to search the phone number which is stored in the phone book.
Save : Stores the phone number the message was sent to.

- 3 Under “Message”, input a new text message then press .

(Please refer to page 31 for more details on entering letters, numbers and symbols.)

- By pressing [OPTIONS], the user can choose from the following:
Insert Quick Text: Inserts canned text into a Text Msg.
Save to Quick Text: Saves the written sentences into Quick Text.

- 4 The default call back number is automatically included into the Default CB# field. You can scroll to the number and edit it or simply press . This will default to you mobile number provide by the carrier

- 5 Press the Navigation Key down for more fields. Under “Priority”, select “Normal” or “Urgent”.

- 6.1. To send the text message, press [SEND].
 6.2. To save the text message press [OPTIONS], select “Save to Outbox,” then press [OK].

INBOX

The Inbox manages received text messages. To access:

- 1 Press [MENU] or .

- : Urgent New Msg (not read)
- : Urgent Read Msg
- : New Msg (not read)
- : Old Msg (already read)
- : Lock (already read and locked)

- 2 Select a message then press .
The message is displayed.

- 3 Press [OPTIONS]. To reply to the text message, press [REPLY].

REPLY

- 1 To reply to the text message.
- 2 Type your reply and press .

REPLY WITH COPY

- 1 To reply to a received message and include the received message into the message.
- 2 The default call back number is automatically inputted into the Default CB# field.
You can scroll to the number and edit it.
- 3 To send the text message, press [SEND].
- 4 To save the text message, press [OPTIONS] and select the "Save to Outbox" then press .

INBOX

FORWARD

- 1 To forward the text message, select "Forward".
- 2 Input the phone number of the person you are sending the message, then press .
- 3 Input any text message to go along with the forwarded message, then press .
- 4 To send the text message, press [SEND].

ERASE

- 1 To erase this message, select "Erase".
- 2 "Erase This Message?" will be displayed.
Press [YES] or [NO].

SAVE TO CONTACT

- 1 To save number to contact, select "Save to Contact".

SAVE TO SAVED

- 1 To save the text message in your cellular telephone, select "Save to Saved".

SAVE TO QUICK TEXT

- 1 To save received text msg to "Quick text", select "Save to Quick text".

LOCK & UNLOCK

- 1 To lock or unlock the text message, select "Lock & Unlock".
- 2 Select "Lock" to lock the message or "Unlock" to unlock the message, then press [OK].

OUTBOX

Manages sent text messages or messages waiting to be sent.

CHECKING SENT TEXT MESSAGES

1 Press [MENU] or or .

- : Auto resend
- : Fail
- : Not send
- : Sent
- : Canceled

2 2.1. Select a message, then press .
The text message is displayed.

2.2. To erase message, press [ERASE].

3 Press [OPTIONS]. To resend to the text message, press [SEND TO].

RESEND

1 To resend a text message, select “Resend”.

SEND TO

1 To forward the text message, select “Send to”.

2 Input the phone number of the person you are sending the message, then press .

3 Input any text message to go along with the forwarded message, then press .

4 To send the text message, press [SEND].

OUTBOX

ERASE

1 To erase this message, select “Erase”.

2 “Erase This Message?” will be displayed.
Press [YES] or [NO].

SAVE TO CONTACT

1 To save number to contact, select “Save to Contact”.

SAVE TO SAVED

1 To save the text message in your cellular telephone, select “Save to Saved”.

LOCK & UNLOCK

1 To lock or unlock the text message, select “Lock & Unlock”.

2 Select “Lock” to lock the message or “Unlock” to unlock the message, then press [OK].

STATE

1 To display the status of an outbox message, select “State”.

2 To return to the previous page, press [OK].

SAVED

SAVED

Manages saved messages from the Inbox/Outbox.

- 1 Press [MENU] or .
- 2 2.1. Select a text message then press [OK].
The text message is displayed.
2.2. To erase message, press [ERASE].
- 3 Press [OPTIONS].
- 4 If the text message is saved from the “Inbox” menu, this screen will be displayed.

- To select inbox menu : Reply, Reply with Copy, Forward, Erase, Save to Contact, Save to Quick Text, Lock & Unlock

If the text message is saved from the “Outbox” menu, this screen will be displayed.

- To select outbox menu : Resend, Send to, Erase, Save to Contact, Lock & Unlock, State

- 5 Select one by pressing .

WEB ALERTS

WEB ALERTS

- 1 Press [MENU] or .
- 2 To select GoTo, then press and press to connecting selected site.
To select erase message, press to erase selected message.
- 3 The Web Alert message will be displayed.

- : Read Message.
- : Unread Message.
- GoTo : Connecting Selected Site.
- Erase : Erase Selected Message.

QUICK TEXT

QUICK TEXT

To edit the Quick Text message you have saved:

1 Press [MENU] or .

2 2.1. Select a message from the list.
Press [OPTIONS].

2.2. To add a new Quick Text message, select “Add New”. To edit the Quick Text message you have selected, select “Edit”.

3 To erase the saved Quick Text message, press [ERASE].

Yes / No / Call me / Need directions / Where are you? /
Will call later / Busy / On my way / Will arrive 15 minutes /
Thank you / Love you

ERASE ALL

ERASE ALL

1 Press [MENU] or .

2 1. To erase all the voice mail, press .

2. To erase all the Inbox messages, press .

- Read Msg Only : To erase all messages already read. (However, the locked Message(s) will not be deleted).
- Entire Msg : To erase all messages.

3. To erase all the Outbox messages, press .

4. To erase the saved messages, press .

5. To erase all the web alerts, press .

6. To erase the quick text, press .

3 Press [YES] or [NO].

SETTINGS

Manages messaging features through various features.

SAVE SENT MSG

- 1 Press [MENU] or .
- 2 Select one from “Off”, “On” or “Prompt” with the Navigation Key and press [OK].

DEFAULT CALLBACK

Edits a default callback number so that the recipient can call back or reply.

- 1 Press [MENU] or .
- 2 Input a callback number, then press .

- You can look it up from the phone book by pressing [FIND].

REMINDER

- 1 Press [MENU] or .
- 2 Select “On” or “Off” with the Navigation Key and press [OK].

SETTINGS

AUTO ERASE

Automatically erases inbox/outbox messages when new messages arrive.

INBOX

- 1 Press [MENU] or .
- 2 Press .
Select “Disable” or “Read Msg” with Navigation Key and press [OK].

OUTBOX

- 1 Press [MENU] or .
- 2 Press .
Select “Disable” or “Old Msg” with Navigation Key and press [OK].

ENTRY MODE

Sets an Entry Mode as a default. For example, if T9 Mode is the default, its icon will appear.

- 1 Press [MENU] or .
- 2 Select “Alpha Mode” or “T9 Mode” with the Navigation Key and press [OK].

SETTINGS

MESSAGE LOG

INCOMING LOG

- 1 Press [MENU] 3 DEF 9 WYS 6 MSG or 9 WYS 6 MSG.
- 2 Press 1 RL.
Displays information on the incoming messages including "Stored Msg/Read Msg."
- 3 To return to the previous page, press [OK].

OUTGOING LOG

- 1 Press [MENU] 3 DEF 9 WYS 6 MSG or 9 WYS 6 MSG.
- 2 Press 2 ABC.
Displays information on the outgoing messages such as "Sent Msg."
- 3 To return to the previous page, press [OK].

RESET LOG

- 1 Press [MENU] 3 DEF 9 WYS 6 MSG or 9 WYS 6 MSG.
- 2 Press 3 DEF.
Select "Incoming Log" or "Outgoing Log" with Navigation Key.
- 3 "Reset Incoming/Outgoing Log?" will be displayed.
Press [YES] or [NO].

SETTINGS

RETRY TIME

- 1 Press [MENU] 3 DEF 9 WYS 7 PGR or 9 WYS 7 PGR.
- 2 Select on of the following with the Navigation Key and press [OK].
 - 3 mins / 5 mins / 10 mins / 30 mins.

EDIT VOICE CB#

- 1 Press [MENU] 3 DEF 9 WYS 8 TUV or 9 WYS 8 TUV.
- 2 Input a new voice call back number or edit voice call back number.
 - You can look it up from the phone book by pressing [FIND].
- 3 Press [OK].

PUSH SETTINGS

- 1 Press [MENU] 3 DEF 9 WYS 9 WYS or 9 WYS 9 WYS.
- 2 Select one from "Yes" or "No" with the Navigation Key and press [OK].

Chapter 7

MOBILE BROWSER

This chapter addresses Internet services and Mobile Browser.
For more detailed information contact your service provider.

- START MOBILE BROWSING
- MOBILE BROWSER MENU

START MOBILE BROWSING

ACCESS THE INTERNET

- 1 To start your mobile browsing and access websites through your wireless handset press [MENU] or .

MOBILE BROWSER MENU

The Mobile Browser Menu lists the actions necessary to operate the mobile browsing.
press [MENU] or press to access the Mobile Browser Menu.

BACK

- 1 To return to the previous page, press [MENU] .

HOME

- 1 To display the homepage, press [MENU] .

FORWARD

- 1 To forward to the next page, press [MENU] .

MOBILE BROWSER MENU

BOOKMARKS

- 1 To view your “Bookmark List”, press [MENU] .
- This provides easy website access without entering a URL.

SEARCH

- 1 To launches a “Google” search, press [MENU] .

GO TO URL

- 1 To allows the user to enter and access a URL, press [MENU] .

SHOW URL

- 1 To displays the current URL, press [MENU] .

RELOAD

- 1 To Allows the user to refresh the current URL, press [MENU] .


MOBILE BROWSER MENU

SETTINGS

- 1 To access the mobile browsing settings menu, press  [MENU]  .


HOMEPAGE

Show the homepage URL.

- 1 To select “Homepage”, press  .


DOWNLOADS

Allows the user to turn on/off object display (images and sounds).

- 1 To select “Downloads”, press  .

RESTART BROWSER

Restarts the mobile browsing dumping the cache and returning to the home page.

- 1 To select “Restart Browser”, press  .


VIEW TITLE REGION

To allows users to set the mode and display for long title URL.

- 1 To select “View Title Region”, press  .

SCROLL MODE


To allows users to set the mode and scrolling speed for long texts.

- 1 To select “Scroll Mode”, press  .

MOBILE BROWSER MENU

SEND REFFERER

To allows the user allow the mobile browsing send the URL of the current site when navigating to a new site (only in HTTP stack).

- 1 To select “Send Refferer”, press  .

KEY PRESS TIMEOUT

To duration between how long the mobile browsing will wait for acknowledgement after key press.

- 1 To select “Key Press Timeout”, press  .

SECURITY



To accesses the security menu and settings as follows.

- 1 To select “Security”, press  .

- Secure Prompt : Displays prompt before you exit from a secure site.
- Authentication : Gives the option to turn authentication caching “ON” or “OFF”.
- Current Certificate : Shows the current site security key for TLS/SSL (if applicable)

MOBILE BROWSER MENU

HISTORY

- 1 To display URLs that you visited recently, press  [MENU]  .

ABOUT...

Displays the name of the supplier of the Mobile browsing, the Mobile browsing software version and root certificate list.

- 1 To select “About...”.

Chapter 8

SAFETY AND WARRANTY

This chapter addresses the safety guidelines and precautions to follow when operating your cellular telephone. Before operating your cellular telephone, please be aware of all the safety details.

This chapter contains the terms and conditions of services and the warranty for your cellular telephone. Please review them thoroughly.

- SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES
- SAFETY INFORMATION FOR FCC RF EXPOSURE
- SAR INFORMATION
- FDA CONSUMER UPDATE
- PROTECT YOUR WARRANTY
- 12 MONTH LIMITED WARRANTY

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

*Read This Information Before Using Your Handheld
Portable Cellular Telephone*

EXPOSURE TO RADIO FREQUENCY SIGNALS

Your wireless handheld portable telephone is a low power radio transmitter and receiver. When it is ON, it receives and also sends out radio frequency (RF) signals.

In August 1996, the Federal Communications Commissions (FCC) adopted RF exposure guidelines with safety levels for handheld wireless phones. Those guidelines are consistent with the safety standards previously set by both U.S. and international standards bodies:

ANSI C95.1 (1992) *
NCRP Report 86 (1986) *
ICNIRP (1996) *

Those standards were based on comprehensive and periodic evaluations of the relevant scientific literature. For example, over 120 scientists, engineers, and physicians from universities, government health agencies, and industry reviewed the available body of research to develop the ANSI Standard (C951).

The design of your cellular telephone complies with the FCC guidelines (and those standards).

ANTENNA CARE

Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the phone and may violate FCC regulations.

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

DRIVING SAFETY

Talking on the phone while driving is extremely dangerous and is illegal in some areas. Remember, safety comes first. Check the laws and regulations on the use of phones in the areas where you drive. Always obey them.

Also, if using your cellular telephone while driving, please:

- Give full attention to driving. Driving safely is your first responsibility.
- Use hands-free operation, if available.
- Pull off the road and park before making or answering a call, if driving conditions so require.

If you must use the phone while driving, please use one-touch, speed dialing, and auto answer modes.

An airbag inflates with great force. DO NOT place objects, including both installed or portable wireless equipment, in the area over the airbag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.



WARNING: Failure to follow these instructions may lead to serious personal injury and possible property damage.

1* : American National Standards Institute.
2* : National Council on Radiation protection and measurements.
3* : International Commission on Nonionizing Radiation Protection.

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

ELECTRONIC DEVICES

Most modern electronic equipment is shielded from RF energy. However, certain electronic equipment may not be shielded against the RF signals from your wireless phone.

PACEMAKERS

The Health Industry Manufacturers Association recommends that a minimum separation of six (6") inches be maintained between a handheld wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research.

Persons with pacemakers :

- ALWAYS keep the phone more than six inches from your pacemaker when the phone is turned on.
- Do not carry the phone in a breast pocket.
- Use the ear opposite the pacemaker to minimize the potential for interference.
- If you have any reason to suspect that interference is taking place, turn your cellular telephone OFF immediately.

OTHER MEDICAL DEVICES

If you use any other personal medical device, consult the manufacturer of your device to determine if they are adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information.

Turn your cellular telephone OFF in healthcare facilities when any regulations posted in these areas instruct you to do so. Hospitals or healthcare facilities may be using equipment that could be sensitive to external RF energy.

POSTED FACILITIES

Turn your cellular telephone OFF where posted notices so require.

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

OTHER SAFETY GUIDELINES

AIRCRAFT

FCC and Transport Canada Regulations prohibit using your cellular telephone while in the air. Turn your cellular telephone OFF before boarding an aircraft.

BLASTING AREAS

To avoid interfering with blasting operations, turn your cellular telephone OFF when in a "blasting area" or in areas posted: "Turn off two-way radio." Obey all signs and instructions.

POTENTIALLY EXPLOSIVE ATMOSPHERES

Turn your cellular telephone OFF when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

Areas with a potentially explosive atmosphere are often, but not always, clearly marked. They include fueling areas such as gas stations; below deck on boats; fuel or chemical transfer or storage facilities; vehicles using liquefied petroleum gas (such as propane or butane); areas where the air contains chemicals or particles, such as grain, dust, or metal powders; and any other area where you would normally be advised to turn off your vehicle's engine.

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

PRECAUTIONS

Your Handheld Portable Telephone is a high quality piece of equipment. Before operating, read all instructions and cautionary markings on (1) AC Adaptor (2) Battery and (3) Product Using Battery.



DO NOT use this equipment in an extreme environment where high temperature or high humidity exists.



DO NOT abuse the equipment. Avoid striking, shaking or shocking. When not using, lay down the unit to avoid possible damage due to instability.



DO NOT expose this equipment to rain or spilled beverages.



DO NOT use unauthorized accessories.



DO NOT disassemble the phone or its accessories. If service or repair is required, return unit to an authorized Audiovox cellular service center. If unit is disassembled, the risk of electric shock or fire may result.



DO NOT short-circuit the battery terminals with metal items etc.

SAFETY INFORMATION FOR FCC RF EXPOSURE



WARNING! Read this Information before using

CAUTIONS

In August 1996 the Federal Communications Commission (FCC) of the United States with its action in Report and Order FCC 96-326 adopted an updated safety standard for human exposure to radio frequency electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies. The design of this phone complies with the FCC guidelines and these international standards.

Use only the supplied or an approved antenna. Unauthorized antennas, modifications, or attachments could impair call quality, damage the phone, or result in violation of FCC regulations. Do not use the phone with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result. Please contact your local dealer for replacement antenna.

BODY-WORN OPERATION

This device was tested for typical body-worn operations with the back of the phone kept 2.0 cm. from the body. To maintain compliance with FCC RF exposure requirements, use only belt-clips, holsters or similar accessories that maintain a 2.0 cm. separation distance between the user's body and the back of the phone, including the antenna. The use of belt-clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.

VEHICLE MOUNTED EXTERNAL ANTENNA (OPTIONAL, IF AVAILABLE)

A minimum separation distance of 7.9 inches (20cm) must be maintained between the user/bystander and the vehicle mounted external antenna to satisfy FCC RF exposure requirements.



For more information about RF exposure, please visit the FCC website at www.fcc.gov

SAR INFORMATION

THIS MODEL PHONE MEETS THE GOVERNMENT'S REQUIREMENTS FOR EXPOSURE TO RADIO WAVES.

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radiofrequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg. * Tests for SAR are conducted with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this model phone when tested for use at the ear is 1.15 W/Kg and when worn on the body, as described in this user guide, is 0.393W/Kg. (Body-worn measurements differ among phone models, depending upon available accessories and FCC requirements). While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement for safe exposure.

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of <http://www.fcc.gov/oet/fccid> after searching on PP4TX-110C.

SAR INFORMATION

Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications Industry Association (CTIA) website at <http://www.wow-com.com>.

* In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.



1. Do wireless phones pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radiofrequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the stand-by mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

2. What is FDA's role concerning the safety of wireless phones?

Under the law, FDA does not review the safety of radiation-emitting consumer products such as wireless phones before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless phones are shown to emit radiofrequency energy (RF) at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of wireless phones to notify users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists. Although the existing scientific data do not justify FDA regulatory actions, FDA has urged the wireless phone industry to take a number of steps, including the following:

- Support needed research into possible biological effects of RF of the type emitted by wireless phones;
- Design wireless phones in a way that minimizes any RF exposure to the user that is not necessary for device function;
- and
- Cooperate in providing users of wireless phones with the best possible information on possible effects of wireless phone use on human health.

FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of RF safety to ensure coordinated efforts at the federal level. The following agencies belong to this working group:

- National Institute for Occupational Safety and Health
- Environmental Protection Agency
- Federal Communications Commission
- Occupational Safety and Health Administration
- National Telecommunications and Information Administration

The National Institutes of Health participates in some inter-agency working group activities, as well. FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. FCC relies on FDA and other health agencies for safety questions about wireless phones. FCC also regulates the base stations that the wireless phone networks rely upon. While these base stations operate at higher power than do the wireless phones themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless phones. Base stations are thus not the subject of the safety questions discussed in this document.

3. What kinds of phones are the subject of this update?

The term "wireless phone" refers here to hand-held wireless phones with built-in antennas, often called "cell," "mobile," or "PCS" phones.

These types of wireless phones can expose the user to measurable radiofrequency energy (RF) because of the short distance between the phone and the user's head. These RF exposures are limited by Federal Communications Commission safety guidelines that were developed with the advice of FDA and other federal health and safety agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person's RF exposure decreases rapidly with increasing distance from the source. The so-called "cordless phones," which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures far below the FCC safety limits.

4. What are the results of the research done already?

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of radiofrequency energy (RF) exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be pre-disposed to develop cancer in the absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don't know with certainty what the results of such studies mean for human health. Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phone RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

5. What research is needed to decide whether RF exposure from wireless phones poses a health risk?

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting effect if one exists. Epidemiological studies can provide data that is directly applicable to human populations, but 10 or more years' follow-up may be needed to provide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop - if they do - may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

6. What is FDA doing to find out more about the possible health effects of wireless phone RF?

FDA is working with the U.S. National Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are conducted to address important questions about the effects of exposure to radiofrequency energy (RF). FDA has been a leading participant in the World Health Organization International Electromagnetic Fields (EMF) Project since its inception in 1996. An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world.

The Project has also helped develop a series of public information documents on EMF issues. FDA and the Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety. FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts to independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

7. How can I find out how much radiofrequency energy exposure I can get by using my wireless phone?

All phones sold in the United States must comply with Federal Communications Commission (FCC) guidelines that limit radiofrequency energy (RF) exposures. FCC established these guidelines in consultation with FDA and the other federal health and safety agencies. The FCC limit for RF exposure from wireless telephones is set at a Specific Absorption Rate (SAR) of 1.6 watts per kilogram (1.6 W/kg). The FCC limit is consistent with the safety standards developed by the Institute of Electrical and Electronic Engineers (IEEE) and the National Council on Radiation Protection and Measurement. The exposure limit takes into consideration the body's ability to remove heat from the tissues that absorb energy from the wireless phone and is set well below levels known to have effects. Manufacturers of wireless phones must report the RF exposure level for each model of phone to the FCC. The FCC website (<http://www.fcc.gov/oet/rfsafety>) gives directions for locating the FCC identification number on your cellular telephone so you can find your phone's RF exposure level in the online listing.

8. What has FDA done to measure the radiofrequency energy coming from wireless phones?

The Institute of Electrical and Electronic Engineers (IEEE) is developing a technical standard for measuring the radiofrequency energy (RF) exposure from wireless phones and other wireless handsets with the participation and leadership of FDA scientists and engineers. The standard, "Recommended Practice for Determining the Spatial-Peak Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques," sets forth the first consistent test methodology for measuring the rate at which RF is deposited in the heads of wireless phone users. The test method uses a tissue-simulating model of the human head. Standardized SAR test methodology is expected to greatly improve the consistency of measurements made at different laboratories on the same phone. SAR is the measurement of the amount of energy absorbed in tissue, either by the whole body or a small part of the body. It is measured in watts/kg (or milliwatts/g) of matter. This measurement is used to determine whether a wireless phone complies with safety guidelines.

9. What steps can I take to reduce my exposure to radiofrequency energy from my wireless phone?

If there is a risk from these products—and at this point we do not know that there is—it is probably very small. But if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your exposure to radiofrequency energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure.

- If you must conduct extended conversations by wireless phone every day, you could place more distance between your body and the source of the RF, since the exposure level drops off dramatically with distance. For example, you could use a headset and carry the wireless phone away from your body or use a wireless phone connected to a remote antenna.

Again, the scientific data do not demonstrate that wireless phones are harmful. But if you are concerned about the RF exposure from these products, you can use measures like those described above to reduce your RF exposure from wireless phone use.

10. What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radiofrequency energy (RF), the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure. Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

11. What about wireless phone interference with medical equipment?

Radiofrequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical Instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI. FDA has tested hearing aids for interference from handheld wireless phones and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a "compatible" phone and a "compatible" hearing aid at the same time. This standard was approved by the IEEE in 2000. FDA continues to monitor the use of wireless phones for possible interactions with other medical devices. Should harmful interference be found to occur, FDA will conduct testing to assess the interference and work to resolve the problem.

12. Where can I find additional information?

For additional information, please refer to the following resources:

- FDA web page on wireless phones (<http://www.fda.gov/cdrh/phones/index.html>)
- Federal Communications Commission (FCC) RF Safety Program (<http://www.fcc.gov/oet/rfsafety>)
- International Commission on Non-Ionizing Radiation Protection (<http://www.icnirp.de>)
- World Health Organization (WHO) International EMF Project (<http://www.who.int/emf>)
- National Radiological Protection Board (UK) (<http://www.nrpb.org.uk/>)

PROTECT YOUR WARRANTY

Read your Warranty carefully, with the special consideration to paragraph seven of the Limited Warranty for your unit.

“Warranty does not apply to... or to any product or part thereof which has suffered through alteration... mishandling misuse, neglect or accident”.

Many companies are making look alike accessories and in some cases, promoting that their product is equal to or better than the Audiovox product. Be careful. Some of these products may not be compatible to use with your Audiovox product and may damage the unit or cause it to malfunction. If service is required on your unit and it is determined that a non-Audiovox accessory has created the problem with your unit, the Warranty will not apply. In addition, if the unit has already suffered irreversible damage by reason of a non-compatible accessory, the Warranty will be voided. To protect your Warranty, use only compatible accessories which cannot damage or interfere with the functioning of your Audiovox product.



AUDIOVOX COMMUNICATIONS CORP.

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Audiovox Canada

5155 Spectrum Way, Unit #5, Mississauga, Ontario
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12 MONTH LIMITED WARRANTY

Audiovox Communications Corp. (the Company) warrants to the original retail purchaser of this Audiovox handheld portable cellular telephone, that should this product or any part thereof during normal consumer usage and conditions, be proven defective in material or workmanship that results in product failure within the first twelve (12) months period from the date of purchase, such defect(s) will be repaired or replaced (with new or rebuilt parts) at the Company's option, without charge for parts or labor directly related to the defect(s).

The antenna, key pad, display, rechargeable battery and battery charger, if included, are similarly warranted for twelve (12) months from date of purchase.

This Warranty extends only to consumers who purchase the product in the United States or Canada and it is not transferable or assignable.

This Warranty does not apply to:

- (a) Product subjected to abnormal use or conditions, accident, mishandling, neglect, unauthorized alteration, misuse, improper installation or repair or improper storage;
- (b) Product whose mechanical serial number or electronic serial number has been removed, altered or defaced.
- (c) Damage from exposure to moisture, humidity, excessive temperatures or extreme environmental conditions;
- (d) Damage resulting from connection to, or use of any accessory or other product not approved or authorized by the Company;
- (e) Defects in appearance, cosmetic, decorative or structural items such as framing and non-operative parts;
- (f) Product damaged from external causes such as fire, flooding, dirt, sand, weather conditions, battery leakage, blown fuse, theft or improper usage of any electrical source.

The Company disclaims liability for removal or reinstallation of the product, for geographic coverage, for inadequate signal reception by the antenna or for communications range or operation of the cellular system as a whole.

To obtain repairs or replacement within the terms of this Warranty, the product should be delivered with proof of Warranty coverage (e.g. dated bill of sale), the consumer's return address, daytime phone number and/or fax number and complete description of the problem, transportation prepaid, to the Company at the address shown below or to the place of purchase for repair or replacement processing.

12 MONTH LIMITED WARRANTY

In addition, for reference to an authorized Warranty station in your area, you may telephone in the United States (800) 229-1235, and in Canada (800) 465-9672 (in Ontario call 905-712-9299).

THE EXTENT OF THE COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE AND, IN NO EVENT, SHALL THE COMPANY'S LIABILITY EXCEED THE PURCHASE PRICE PAID BY PURCHASER FOR THE PRODUCT.

ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. ANY ACTION FOR BREACH OF ANY WARRANTY MUST BE BROUGHT WITHIN A PERIOD OF 18 MONTHS FROM DATE OF ORIGINAL PURCHASE. IN NO CASE SHALL THE COMPANY BE LIABLE FOR AN SPECIAL CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WHATSOEVER. THE COMPANY SHALL NOT BE LIABLE FOR THE DELAY IN RENDERING SERVICE UNDER THIS WARRANTY OR LOSS OF USE DURING THE TIME THE PRODUCT IS BEING REPAIRED OR REPLACED.

No person or representative is authorized to assume for the Company any liability other than expressed herein in connection with the sale of this product.

Some states or provinces do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damage so the above limitation or exclusions may not apply to you. This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state or province to province.

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